

2011 Consumer Confidence Report

Water System Name: Oakhurst - Sierra Lakes

Report Date: 6/26/2012

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2011.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.

Type of water source(s) in use: Hard rock wells, which draw from underground aquifers.

Name & location of source(s): Sierra Lakes - Well #1A; #3, #4, #5, #6, #7, #8, & 9. Oakhurst - YHS Well #2 & Well #3, Junction Well #1 & Junction #2. Forest Ridge – Ditton #1, Ditton #2, Well #3, & Well #4.

Drinking Water Source Assessment information: Done using the default Groundwater System Method on February 3, 2003.

The following sources of information were used in the assessment: water system files, DHS files. The water systems completed the PCA's for this source. Procedures used to conduct the assessment include: PCA inventories, well data sheets, and GPS survey completed and conducted by CDPH District Staff. The source is considered most vulnerable to the following activities not associated with any detected contaminants: illegal activities/ unauthorized dumping, sewer collection system, automobile – gas stations, septic systems – high density, septic systems – low density. A copy of the complete assessment may be viewed at: Hillview Water Co – Oakhurst/ Sierra Lakes: 40312 Greenwood Way, Oakhurst, CA 93644. You may request a summary of the assessment be sent to you by contacting Mr. James Foster: (559) 683-4322, P.O. Box 2269, Oakhurst, CA 93644

Time and place of regularly scheduled board meetings for public participation: Do not schedule meetings at regular intervals. Public is allowed to participate in all CPUC proceedings.

For more information, contact: Hillview Water Co., Inc.

Phone: (559) 683-4322

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (USEPA).

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to

Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Variances and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (ug/L)

ppt: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants. **pCi/L:** picocuries per liter (a measure of radiation)

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- *Microbial contaminants*, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- *Pesticides and herbicides*, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- *Organic chemical contaminants*, including synthetic and volatile organic chemicals, that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- *Radioactive contaminants*, that can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the USEPA and the state Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, 7, and 8 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA

Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	(In a mo.) <u>1</u>	0	More than 1 sample in a month with a detection	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i>	(In the year) <u>0</u>	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>	0	Human and animal fecal waste

TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER

Lead and Copper (complete if lead or copper detected in the last sample set)	No. of samples collected	90 th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	10	<5	None	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	10	206	None	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	10/12	34.8	10-300	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	10/12	119.5	45-840	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

*Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided later in this report.

TABLE 4 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
*Gross Alpha Activity – pCi/L	6/11	48	1.0-148	15	n/a	Erosion of natural deposits
*Arsenic - ppb	12/11	10.2	<2.0 – 92.4	10	n/a	Erosion of natural deposits; runoff from orchards; glass/electronics mfg. wastes.
Chromium – ppb	3/09	4.1	0-4.1	50	100	Discharge from Steel and Pulp mills and chrome plating; erosion of natural deposits.
Nitrate (as Nitrogen) - ppm	11/11	<3.0	0-12.3	45	45 n/a	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage, erosion from natural deposit.
TTHMs (Total Trihalomethanes)	9/11	4.5	0-4.5	80	n/a	Byproduct of drinking water Chlorination
*Uranium – pCi/L, (average to distribution)	Jan-Dec '11	33.5	2.1-89	20	n/a	Erosion from natural deposits
*Uranium – pCi/L	1/11	89	45-89	20	n/a	Erosion from natural deposits
*Uranium – pCi/L	June-Oct '07	23	3.1 – 2834	20	n/a	Erosion from natural deposits
*PCE (tetrachloroethylene) ug/L	10/10	18	0-18	5	n/a	Dry cleaning & degrease mechanical repair operations

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Chloride - ppm	12/10	80.5	8.1-144	250	n/a	Runoff/ leaching from natural deposits; seawater influence.
Corrosivity	5/05	Moderate			n/a	Natural or industrially-influenced balance of hydrogen, carbon, and oxygen in the water; affected by temperature and other factors.
Iron – ppb, Raw before blending or treatment	3/09	2820	0 - 2820	300	n/a	Leaching from natural deposits
Iron – ppb, after blending & treatment	2/11	192	<100-192	300	n/a	Leaching from natural deposits
Manganese - ppb	12/11	46.4	0 -290	50	n/a	Leaching from natural deposits.

Manganese –ppb, after blending & before treatment	12/12	46.4	0-290	50	n/a	Leaching from natural deposits.
Manganese – ppb, after blending & treatment	12/11	<20	<20 – 46.3	50	n/a	Leaching from natural deposits.
Specific Conductance – micromhos	12/11	409.6	190 - 2800	1600	n/a	Substances that form ions when in water; seawater influence
Sulfate (SO ₄) - ppm	12/11	29.9	3.2-49.8	500	n/a	Runoff/ leaching from natural deposits.
Total Dissolved Solids (TDS) - ppm	12/11	258.6	160-1870	1000	n/a	Runoff/ leaching from natural deposits
Turbidity - NTU	12/11	4.7	<1 – 17	5.0	n/a	Soil runoff.
Zinc - ppm	12/11	76.7	0 - 300	5000	n/a	Runoff/ leaching from natural deposits

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language

*Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

Additional General Information on Drinking Water

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Hillview Water Company is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>

Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

Certain minerals are radioactive and may emit a form of radiation known as alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer. Some people who drink water containing uranium in excess of the MCL over many years may have an increased risk of getting cancer and kidney toxicity.

Arsenic above 10ppb: Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system and may have an increased risk of getting cancer.

California Department of Health Services continues to research the health effects of low levels of arsenic which is a mineral known to cause cancer in humans in high concentrations and is linked to other health effects such as skin damage and circulatory problems. To address the exceedence of the uranium (gross alpha) and arsenic MCL, Hillview

Water Company has received a Proposition 84 grant from the California Department of Public Health under the SAFE. DRINKING WATER, WATER QUALITY AND SUPPLY, FLOOD CONTROL, RIVER AND COASTAL

PROTECTION BOND ACT OF 2006. This grant is for two well head uranium removal treatment plants and an arsenic, iron and manganese removal treatment plant. When the project is complete, these MCL exceedances will be eliminated for the entire Oakhurst/Sierra Lakes water system. On 9/27/10 a water sample from Junction Well #1 tested positive for PCE (tetrachloroethylene). The well was taken off line and will not be used again until it is below the

MCL or filtered. Junction Well #1 represented less than 1.0% of water source for Oakhurst. Perchlorate has been shown to interfere with the uptake of iodide by the thyroid gland, leading to thereby reduce the production of thyroid hormones, leading to adverse affects associated with inadequate hormone levels. Thyroid hormones are needed for normal prenatal growth and development of the fetus, as well as for normal growth and development of the infant and child. In adults, thyroid hormones are needed for normal metabolism and mental function.